ATTY DOCKET NO. APPLICATION NO. 8676-042 10/629,810 Substitute for Form 1449/PTO (909537-999037) INFORMATION DISCLOSURE STATEMENT BY APPLICANT APPLICANT: Tarin, Stephen A. (Use several sheets if necessary) ART UNIT: FILING DATE: CONF. NO.: 2168 July 28, 2003 7914 U.S. PATENT DOCUMENTS Pages, Columns, Lines, Where Relevant **EXAMINER'S** DATE Name of Patentee or Applicant of Cited DOCUMENT NUMBER MM/DD/YYYY Passages or Relevant Figures Appear INITIALS* Document A01

			FOREIGN F	PATENT DOCUMENTS			
EXAMINER'S INITIALS*		Country Code, Number, Kind of Code (if known)	DATE MM/DD/YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSL	ATION
						YES	NO
	B01						

NON PATENT LITERATURE DOCUMENTS (include name of the author (in CAPITAL LETTERS), title of the article (when

appropriate), title of the item (book, magazine, journal, etc.), date, page(s)s, volume, publisher, city and/or country where published., etc.) EXAMINER'S INITIALS* Fiat et al., 1991, "An Implicit Data Structure for Searching a Multikey Table in Logarithmic Time," Journal of C01 Computer and System Sciences vol. 43, 406-424 C02 Fiat et al., 1988, "Storing and Searching a Multikey Table," ACM, pp. 344-353 Knuth, D. E., 1998, "The Art of Computer Programming," 2d Ed., vol. 3, 5, 584, Addison-Wesley Publishing C03 Company Lehman et al., August, 1986, "A Study of Index Structures for Main Memory Database Management Systems," Proc. C04 12th Int'l Conf., Very Large Data Bases, Kyoto, Japan, pp. 294-303 Lehman et al., 1986, "Query Processing in Main Memory Database Management Systems," ACM, pp. 239-250 C05 Munro, 1987, "Searching a Two Key Table Under a Single Key," ACM pp. 383-387 C06 Nevergelt et al., 1984, "The Grid File: An Adaptable, Symmetric Multikey File Structure," ACM, pp. 108-124 C07 Yao, July 1981, "Should Tables Be Sorted?," Journal of the Assoc. of Computing Machinery, vol. 28, no. 3, pp. 615-C08 628 Babb,"Implementing a Relational Database by Means of Specialized Hardware," ACM Transactions on Database C09 Systems, vol. 4, no.1, March 1979, pp. 1-29 Goldstein et al., "The MacAIMS Data Management System," Record of the 1970 ACM SICFIDET Workshop on Data C10 Description and Access, Nov. 15-16, 1970, pp. 201-229 Goldstein et al, "Database Management with Sequence Trees and Tokens," IEEE Transactions on Knowledge and CH Data Engineering, vol. 9, no. 1, Jan-Feb 1997, pp. 186-192 Sharman, "Update-By-Dialogue: An Interactive Approach to Database Modification," ACM SIGMOD International C12 Conference on Management of Data, Toronto, Canada, Aug. 3-5, 1977 Strnad, "The Relational Approach to the Management of Data Bases," Information Processing 71, Proc. Of IFIP C13

EXAMINER	H. A	•
	190.01	

Publishing Company, 1974, pp. 351-360

C14

DATE CONSIDERED 2/13/08

Congress 71, vol. 2, Ljubljana, Yugoslavia, Aug. 23-28, 1971, published 1972, pp. 901-904

Titman, "An Experimental Data Base System Using Binary Relations," Database Management, North-Holland

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ATTY DOCKET NO. APPLICATION NO. 8676-042 (909537-999037) 10/629,810 Substitute for Form 1449/PTO APPLICANT: INFORMATION DISCLOSURE STATEMENT BY APPLICANT Tarin, Stephen A. (Use several sheets if necessary) FILING DATE: ART UNIT: CONF. NO.: July 28, 2003 2168 7914 U.S. PATENT DOCUMENTS Name of Patentee or Applicant of Cited Pages, Columns, Lines, Where Relevant **EXAMINER'S** DATE MM/DD/YYYY DOCUMENT NUMBER Document Passages or Relevant Figures Appear INITIALS* AOI FOREIGN PATENT DOCUMENTS Pages, Columns, Lines, Where Relevant Passages Country Code, Number, Kind of Code (if known) DATE MM/DD/YYYY Name of Patentee or Applicant of Cited **EXAMINER'S** or Relevant Figures TRANSLATION Appear INITIALS* Document YES NO B01 NON PATENT LITERATURE DOCUMENTS (include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book ,magazine, journal, etc..), date, page(s)s, volume, publisher, city and/or country where published.. etc.) EXAMINER'S INITIALS* "ERDB Entity-Relation Database," ERDB Website and ERDB Manual, www.ataindy.com, copyright 1998, COL Automated Technology Associates "Monet Source Code," dated Jan. 8, 1996, as appears on www.cwi.nl/~monet/srcdoc.html as of Feb. 5, 1999 C02 "Monet Performance," www.cwi.nl/~monet/performance.html, last modified Sept. 20, 1995 C03 Boncz et al. "The Drill Down Benchmark," www.cwi.nl/~monet/papers.html, appears in Proceedings of the 24th C04 VLDB Conference New York, USA, 1998 Boncz et al., "Flattening an Object Algebra to Provide Performance," www.cwi.nl/~monet/papers.html, appears in 14th C05 International Conference on Data Engineering, Feb. 23-27, 1998, Orlando, Florida, USA Boncz et al., "Monet and Its Geographic Extensions: a Novel Approach to High Performance GIS Processing," as C06 appears on www.cwi.nl/~monet/papers.html as of Feb. 5, 1999 Boncz et al., "Monet An Impressionist Sketch of an Advanced Database System," www.cwi.nl/-monet/papers.html, appears in Basque International Workshop on Information Technology, Data Management Systems, San Sebastian, C07 Spain, July 19-21, 1995 van den Berg et al., "Monet Meets 007," Nov. 3, 1995, as appears on www.cwi.nl/~monet/papers.html as of Feb. 5, C08 Kersten et al., "A Data Cube Algebra Engine for Data Mining," as appears on www.cwi.nl/~monet/papers.html as of C09 van den Berg, "Dynamic Query Processing in a Parallel Object-Oriented Database System," Ph.D. Thesis, published at C10 CWI, 1994, as appears on www.cwi.nl/~monet/papers.html as of Feb. 5, 1999 van den Berg et al., "Analysis of a Dynamic Query Optimization Technique for Multi-Join Queries," as appears on CH www.cwi.nl/~monet/papers.html as of Feb. 5, 1999 Angara website, www.angara.com, copyright 1998, Angara Database Systems, Inc. C12 Cache website, www.intersys.com, copyright 1996, 1997, 1998, InterSystems Corporation C13 "The Dali Main-Memory Storage Manager," Dali website, www.bell-labs.com/project/dali, copyright 1996, as C14 appears on the website as of Feb. 5, 1999 mily

EXAMINER

Mr. Th.

DATE CONSIDERED 2//3/08

Substitute for Form 1449/PTO	ATTY DOCKET NO. 8676-042 (909537-999037) APPLICATION NO. 10/629,810		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICANT:		
(Use several sheets if necessary)	Tarin, Stephen A.		
***	FILING DATE: July 28, 2003	ART UNIT: CONF. NO.: 2168 7914	

NON PATENT LITERATURE DOCUMENTS (include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book magazine, journal, etc..), date, page(s)s, volume, publisher, city and/or country where published, etc.)

EXAMINER'S INITIALS*		
4 .	C15	Jagadish et al., "Dali: A High Performance Main Memory Storage Manager," www.bell-labs.com/project/dali, appears in Proceedings of the 20 th VLDB Conference Santiago, Chile, 1994
	C16	Bohannon et al., "Recoverable User-Level Mutual Exclusion," as appears on www.bell-labs.com/project/dali as of Feb. 5, 1999
		Bohannon et al., "Logical and Physical Versioning in Main Memory Databases," www.bell-labs.com/project/dali, appears in Proceedings of the Conference on Very Large Database, 1997
	C18	"Times Ten Performance Software," Times Ten website, www.timesten.com, copyright 1997, 1998
	C19	"Titanum Database Engine Technical Synopsis" copyright 1998, Micro Data Base Systems, Inc.
	C20	Herrin et al., "Schema and Tuple Trees: An Intuitive Structure for Representing Relational Data," www.hsdi.com/qddb/article2, appears in Computing Systems, vol. 9, no. 2, copyright 1996 by the USENIX Association
	C21	Herrin et al., "An ASCII Database for Fast Queries of Relatively Stable Data," www.hsdi.com/qddb/article2, appears in Computing Systems, vol. 4, no. 2, copyright 1991 by the Regents of the University of California
	C22	Date, C. J., "An Introduction to Database Systems," 3rd Ed., pp.33-61, Addison-Wesley Publishing Company
	C23	Date, C.J., August, 1995, "An Introduction to Database Systems," 6th Ed., pp. 1-51, 710-760, Addison-Wesley Publishing Company
	C24	Batory, D.S., "On Searching Transposed Files," ACM TRANSACTIONS ON DATABASE SYSTEMS, vol. 4, no. 4, December 1979, pp. 531-544
	C25	Batory et al., "A Unifying Model of Physical Databases," ACM TRANSACTIONS ON DATABASE SYSTEMS, vol. 7, no. 4, December 1982, pp. 509-539
	C26	Eggers et al., "Efficient Access of Compressed Data," IEEE, 1980, pp. 205-211
	C27	Eggers et al., "A Compression Technique for Large Statistical Databases," IEEE, 1981, pp. 424-434
	C28	Valduriez, P., "Join Indices," ACM TRANSACTIONS ON DATABASE SYSTEMS, vol. 12, no. 2, June 1987, pp. 218-246
	C29	Olken et al., "Rearranging Data to Maximize the Efficiency of Compression," ACM, 1986, pp. 78-90

711/7

EXAMINER MAN H.

date considered 2/13/08

Substitute for Form 1449/PTO					ATTY DOCKET N 8676-042 (909537-999037)		10/629,81).
DICORMAT	ON DE	SCLOSURE STATEMENT	DV ADDI ICANI	T ·	APPLICANT:				
INFORMATI	ON DE	(Use several sheets if n		1	Tarin, Stephen A	•			
					FILING DATE:		ART UNIT:	CONF.	NO.:
•			July 28, 2003		2168		914		
			U.S. PAT	TENT DOCUM					
EXAMINER'S	T		DATE			Pages,	s, Columns, Lines, Where Relev		vaut
INITIALS*	-	DOCUMENT NUMBER	MM/DD/YYYY		cument		ges or Relevant I		
	A01		L	<u> </u>		<u> </u>			
			FOREIGN I	PATENT DOC	UMENTS				
	T						olumos, Lines, levant Passages		
EXAMINER'S INITIALS*		Country Code, Number, Kind of Code (If known)	DATE MM/DD/YYY		or Applicant of Cited	or Rele	want Figures	TRANSL	ATION
IMITALS	J	· ·	MADDATTT	1	Cument		ppear	YES	NO
	B01								
appropriate)	NT LI	FERATURE DOCUMEN f the item (book, magazine,	TS (include nai journal, etc.,), o	me of the author (in date, page(s)s, volu	n CAPITAL LETTERS ume, publisher, city ar	i), title of ad/or cour	the article (w atry where pu	hen blished.,	etc.)
EXAMINER'S									
INITIALS*									
INITIALS*	C01	Fiat et al., 1991, "An Imp Computer and System Sc	iences vol. 43,	406-424		Logarithn	nic Time," Jo	urnal of	
INITIALS*	C01	Fiat et al., 1988, "Storing	iences vol. 43, and Searching	406-424 a Multikey Table,	ACM, pp. 344-353				
INITIALS		Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The Company	iences vol. 43, and Searching Art of Computer	a Multikey Table," er Programming,"	ACM, pp. 344-353 2d Ed., vol. 3, 5, 584,	Addison-	Wesley Publi	shing	
initials*	C02	Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The	and Searching Art of Computer 986, "A Study of	a Multikey Table," er Programming,"	ACM, pp. 344-353 2d Ed., vol. 3, 5, 584, for Main Memory Da	Addison-	Wesley Publi	shing	Proc.
INITIALS*	C02 C03	Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The Company Lehman et al., August, 19	iences vol. 43, 4 and Searching Art of Compute 986, "A Study of ge Data Bases,	406-424 a Multikey Table," er Programming," of Index Structures Kyoto, Japan, pp. 2	ACM, pp. 344-353 2d Ed., vol. 3, 5, 584, for Main Memory Da 294-303	Addison- tabase Ma	Wesley Publi	shing	Proc.
INITIALS*	C02 C03 C04	Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The Company Lehman et al., August, 19 12 th Int'l Conf., Very Lar	and Searching Art of Compute 986, "A Study of ge Data Bases, ery Processing	406-424 a Multikey Table, er Programming," of Index Structures Kyoto, Japan, pp. 2 in Main Memory I	ACM, pp. 344-353 2d Ed., vol. 3, 5, 584, for Main Memory Da 294-303 Database Management	Addison- tabase Ma	Wesley Publi	shing	Proc.
INITIALS*	C02 C03 C04 C05	Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The Company Lehman et al., August, 19 12 th Int'l Conf., Very Lar Lehman et al., 1986, "Qu	and Searching Art of Compute 986, "A Study of ge Data Bases, ery Processing a Two Key Tal	406-424 a Multikey Table," er Programming," of Index Structures Kyoto, Japan, pp. 2 in Main Memory I ble Under a Single	"ACM, pp. 344-353 2d Ed., vol. 3, 5, 584, for Main Memory Da 294-303 Database Management Key," ACM pp. 383-	Addison- tabase Ma Systems,	Wesley Publi anagement Sy " ACM, pp. 2	shing stems," I	Proc.
INITIALS*	C02 C03 C04 C05 C06	Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The Company Lehman et al., August, 19 12 th Int'l Conf., Very Lar Lehman et al., 1986, "Qu Munro, 1987, "Searching	and Searching Art of Compute 986, "A Study of ge Data Bases, tery Processing a Two Key Tal the Grid File: A	a Multikey Table," er Programming," of Index Structures Kyoto, Japan, pp. 2 in Main Memory I ble Under a Single n Adaptable, Symr	"ACM, pp. 344-353 2d Ed., vol. 3, 5, 584, for Main Memory Da 294-303 Database Management Key," ACM pp. 383- metric Multikey File S	Addison- tabase Ma Systems, 387	Wesley Publicanagement Sy	shing estems," I 239-250	
INITIALS*	C02 C03 C04 C05 C06 C07	Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The Company Lehman et al., August, 19 12 th Int'l Conf., Very Lar Lehman et al., 1986, "Qu Munro, 1987, "Searching Nevergelt et al., 1984, "T Yao, July 1981, "Should 628 Babb,"Implementing a Re Systems, vol. 4, no.1, Ma	and Searching Art of Compute 986, "A Study of ge Data Bases, tery Processing a Two Key Tal Tables Be Sorte elational Databa arch 1979, pp. 1	a Multikey Table," er Programming," of Index Structures Kyoto, Japan, pp. 2 in Main Memory I ble Under a Single n Adaptable, Symmed?," Journal of the ase by Means of Sp29	"ACM, pp. 344-353 2d Ed., vol. 3, 5, 584, for Main Memory Da 294-303 Database Management Key," ACM pp. 383- metric Multikey File S Assoc. of Computing	Addison- tabase Ma Systems, 387 tructure," Machine	"ACM, pp. 10 PACM, pp. 10 ery, vol. 28, no	shing stems," i 239-250 08-124 o. 3, pp. 0	515-
INITIALS*	C02 C03 C04 C05 C06 C07 C08	Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The Company Lehman et al., August, 19 12 th Int'l Conf., Very Lar Lehman et al., 1986, "Qu Munro, 1987, "Searching Nevergelt et al., 1984, "T Yao, July 1981, "Should 628 Babb,"Implementing a Re Systems, vol. 4, no.1, Ma Goldstein et al., "The Ma Description and Access, 1	and Searching Art of Compute 986, "A Study of ge Data Bases, tery Processing a Two Key Tal Tables Be Sorte elational Databa arch 1979, pp. 1 CAIMS Data M Nov. 15-16, 197	a Multikey Table, er Programming," of Index Structures Kyoto, Japan, pp. 2 in Main Memory I ble Under a Single n Adaptable, Symred?," Journal of the ase by Means of Sp29 fanagement System 70, pp. 201-229	"ACM, pp. 344-353 2d Ed., vol. 3, 5, 584, for Main Memory Da 294-303 Database Management Key," ACM pp. 383- metric Multikey File S Assoc. of Computing pecialized Hardware,"	Addison- tabase Ma Systems, 387 structure," Machine	"ACM, pp. 10 ery, vol. 28, no cry, vol. 28, no cry CFIDET Wor	estems," I 239-250 08-124 o. 3, pp. (Database	515- e
)	C02 C03 C04 C05 C06 C07 C08	Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The Company Lehman et al., August, 19 12th Int'l Conf., Very Lar Lehman et al., 1986, "Qu Munro, 1987, "Searching Nevergelt et al., 1984, "T Yao, July 1981, "Should 628 Babb,"Implementing a Re Systems, vol. 4, no.1, Ma Goldstein et al., "The Ma Description and Access, 1 Goldstein et al., "Database Data Engineering, vol. 9,	iences vol. 43, 43, 45, 46, 47, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48	a Multikey Table," er Programming," of Index Structures Kyoto, Japan, pp. 2 in Main Memory I ble Under a Single n Adaptable, Symr ed?," Journal of the ase by Means of Sp -29 anagement System 10, pp. 201-229 with Sequence Tree 1997, pp. 186-192	ACM, pp. 344-353 2d Ed., vol. 3, 5, 584, for Main Memory Da 294-303 Database Management Key," ACM pp. 383- metric Multikey File S Assoc. of Computing pecialized Hardware," 1," Record of the 1970 es and Tokens," IEEE	Addison- tabase Ma Systems, 387 structure," Machine ACM Tra ACM Slo	"ACM, pp. 10 PACM, pp. 10 PACM, pp. 10 Pary, vol. 28, no	ostems," I 239-250 08-124 o. 3, pp. (Database	615- : n Data
INITIALS*	C02 C03 C04 C05 C06 C07 C08 C09	Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The Company Lehman et al., August, 19 12th Int'l Conf., Very Lar Lehman et al., 1986, "Qu Munro, 1987, "Searching Nevergelt et al., 1984, "T Yao, July 1981, "Should 628 Babb,"Implementing a Re Systems, vol. 4, no.1, Ma Goldstein et al., "The Ma Description and Access, I Goldstein et al., "Database Data Engineering, vol. 9, Sharman, "Update-By-Di Conference on Manageme	iences vol. 43, 43, 45, and Searching Art of Compute P86, "A Study of ge Data Bases, hery Processing a Two Key Talling The Grid File: A Tables Be Sorte Pelational Databarch 1979, pp. 1 CAIMS Data Mov. 15-16, 197 Mov. 15-16, 197 Mov. 1, Jan-Feb Palogue: An Interent of Data, Tor	a Multikey Table," er Programming," of Index Structures Kyoto, Japan, pp. 2 in Main Memory I ble Under a Single n Adaptable, Symr ed?," Journal of the ase by Means of Sp -29 anagement System 10, pp. 201-229 with Sequence Tree 1997, pp. 186-192 ractive Approach t onto, Canada, Aug	"ACM, pp. 344-353 2d Ed., vol. 3, 5, 584, for Main Memory Da 294-303 Database Management Key," ACM pp. 383- metric Multikey File S Assoc. of Computing secialized Hardware," a," Record of the 1970 es and Tokens," IEEE o Database Modificati 3, 3-5, 1977	Addison- tabase Ma Systems, 387 structure," Machine ACM Tra ACM Slo Transacti	"ACM, pp. 10 "ACM,	ostems," I 239-250 08-124 o. 3, pp. (Database kshop on riedge and	515- : n Data
INITIALS*	C02 C03 C04 C05 C06 C07 C08 C09 C10	Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The Company Lehman et al., August, 1912th Int'l Conf., Very Lar Lehman et al., 1986, "Qu Munro, 1987, "Searching Nevergelt et al., 1984, "T Yao, July 1981, "Should 628 Babb,"Implementing a Re Systems, vol. 4, no.1, Ma Goldstein et al., "The Ma Description and Access, I Goldstein et al., "Database Data Engineering, vol. 9, Sharman, "Update-By-Di Conference on Manageme Strnad, "The Relational A Congress 71, vol. 2, Ljub	iences vol. 43, 43, 43, 43, 44, 45, 46, 47, 47, 48, 48, 48, 48, 48, 48, 48, 48, 48, 48	a Multikey Table," er Programming," of Index Structures Kyoto, Japan, pp. 2 in Main Memory I ble Under a Single n Adaptable, Symr ed?," Journal of the ase by Means of Sp. 29 anagement System 10, pp. 201-229 with Sequence Tree 1997, pp. 186-192 ractive Approach t conto, Canada, Aug Management of Da ia, Aug. 23-28, 197	ACM, pp. 344-353 2d Ed., vol. 3, 5, 584, for Main Memory Da 294-303 Database Management Key," ACM pp. 383- metric Multikey File S Assoc. of Computing secialized Hardware," a," Record of the 1970 es and Tokens," IEEE o Database Modificat g, 3-5, 1977 ata Bases," Informatio 71, published 1972, pp	Addison- tabase Ma Systems, 387 tructure," Machine ACM Tra ACM Si Transacti ion," ACM	"ACM, pp. 10 PACM,	ostems," I 239-250 08-124 o. 3, pp. (Database kshop on riedge and otternatio	515- : n Data
INITIALS*	C02 C03 C04 C05 C06 C07 C08 C09 C10 C11	Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The Company Lehman et al., August, 19 12th Int'l Conf., Very Lar Lehman et al., 1986, "Qu Munro, 1987, "Searching Nevergelt et al., 1984, "T Yao, July 1981, "Should 628 Babb,"Implementing a Re Systems, vol. 4, no.1, Ma Goldstein et al., "The Ma Description and Access, I Goldstein et al., "Database Data Engincering, vol. 9, Sharman, "Update-By-Di Conference on Manageme Strnad, "The Relational A	iences vol. 43, 43, 45, and Searching Art of Compute P86, "A Study of ge Data Bases, hery Processing a Two Key Talling Tables Be Sorte Pelational Databarch 1979, pp. 1 CAIMS Data Mov. 15-16, 1970 Mov. 15-16, 19	a Multikey Table," er Programming," of Index Structures Kyoto, Japan, pp. 2 in Main Memory I ble Under a Single n Adaptable, Symr ed?," Journal of the ase by Means of Sp. 29 anagement System 10, pp. 201-229 with Sequence Tree 1997, pp. 186-192 ractive Approach t conto, Canada, Aug Management of Da ia, Aug. 23-28, 192 stem Using Binary	ACM, pp. 344-353 2d Ed., vol. 3, 5, 584, for Main Memory Da 294-303 Database Management Key," ACM pp. 383- metric Multikey File S Assoc. of Computing secialized Hardware," a," Record of the 1970 es and Tokens," IEEE o Database Modificat g, 3-5, 1977 ata Bases," Informatio 71, published 1972, pp	Addison- tabase Ma Systems, 387 tructure," Machine ACM Tra ACM Si Transacti ion," ACM	"ACM, pp. 10 PACM,	ostems," I 239-250 08-124 o. 3, pp. (Database kshop on riedge and otternatio	515- : n Data
TONTALS	C02 C03 C04 C05 C06 C07 C08 C09 C10 C11 C12 C13	Computer and System Sc Fiat et al., 1988, "Storing Knuth, D. E., 1998, "The Company Lehman et al., August, 1912" Int'l Conf., Very Lar Lehman et al., 1986, "Qu Munro, 1987, "Searching Nevergelt et al., 1984, "T Yao, July 1981, "Should 628 Babb,"Implementing a Re Systems, vol. 4, no.1, Ma Goldstein et al., "The Ma Description and Access, Goldstein et al., "Database Data Engineering, vol. 9, Sharman, "Update-By-Di Conference on Manageme Strnad, "The Relational A Congress 71, vol. 2, Ljub Titman, "An Experimenta	iences vol. 43, 43, 45, and Searching Art of Compute P86, "A Study of ge Data Bases, hery Processing a Two Key Talling Tables Be Sorte Pelational Databarch 1979, pp. 1 CAIMS Data Mov. 15-16, 1970 Mov. 15-16, 19	a Multikey Table," er Programming," of Index Structures Kyoto, Japan, pp. 2 in Main Memory I ble Under a Single n Adaptable, Symr ed?," Journal of the ase by Means of Sp. 29 anagement System 10, pp. 201-229 with Sequence Tree 1997, pp. 186-192 ractive Approach t conto, Canada, Aug Management of Da ia, Aug. 23-28, 192 stem Using Binary	ACM, pp. 344-353 2d Ed., vol. 3, 5, 584, for Main Memory Da 294-303 Database Management Key," ACM pp. 383- metric Multikey File S Assoc. of Computing secialized Hardware," a," Record of the 1970 es and Tokens," IEEE o Database Modificat g, 3-5, 1977 ata Bases," Informatio 71, published 1972, pp	Addison- tabase Ma Systems, 387 tructure," Machine ACM Tra ACM Si Transacti ion," ACM	"ACM, pp. 10 PACM,	ostems," I 239-250 08-124 o. 3, pp. (Database kshop on riedge and otternatio	615- : n Data

EXAMINER

mak. X

DATE CONSIDERED 2/13/08

FEB J 6 7007 W

Substitute for Form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)

ATTY DOCKET NO. 8676-042

8676-042 (909537-999037) APPLICATION NO.

10/629,810

APPLICANT:

Tarin, Stephen A.

FILING DATE: July 28, 2003 ART UNIT: 2168

CONF. NO.: 7914

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS*		DOCUMENT NUMBER	DATE MM/DD/YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A01				

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS*		Country Code, Number, Kind of Code (if known)	DATE MM/DD/YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSL	ATION
						YES	NO
	B01						

NON PATENT LITERATURE DOCUMENTS (include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, etc.,), date, page(s)s, volume, publisher, city and/or country where published., etc.)

EXAMINER'S INITIALS*		
1	C01	"ERDB Entity-Relation Database," ERDB Website and ERDB Manual, www.ataindy.com, copyright 1998, Automated Technology Associates
	C02	"Monet Source Code," dated Jan. 8, 1996, as appears on www.cwi.nl/~monet/srcdoc.html as of Feb. 5, 1999
	C03	"Monet Performance," www.cwi.nl/~monet/performance.html, last modified Sept. 20, 1995
	C04	Boncz et al., "The Drill Down Benchmark," www.cwi.nl/~monet/papers.html, appears in Proceedings of the 24 th VLDB Conference New York, USA, 1998
	C05	Boncz et al., "Flattening an Object Algebra to Provide Performance," www.cwi.nl/~monet/papers.html, appears in 14 th International Conference on Data Engineering, Feb. 23-27, 1998, Orlando, Florida, USA
	C06	Boncz et al., "Monet and Its Geographic Extensions: a Novel Approach to High Performance GIS Processing," as appears on www.cwi.nl/~monet/papers.html as of Feb. 5, 1999
	C07	Boncz et al., "Monet An Impressionist Sketch of an Advanced Database System," www.cwi.nl/~monet/papers.html, appears in Basque International Workshop on Information Technology, Data Management Systems, San Sebastian, Spain, July 19-21, 1995
	C08	van den Berg et al., "Monet Meets 007," Nov. 3, 1995, as appears on www.cwi.nl/~monet/papers.html as of Feb. 5, 1999
	C09	Kersten et al., "A Data Cube Algebra Engine for Data Mining," as appears on www.cwi.nl/~monet/papers.html as of Feb. 5, 1999
	C10	van den Berg, "Dynamic Query Processing in a Parallel Object-Oriented Database System," Ph.D. Thesis, published at CWI, 1994, as appears on www.cwi.nl/~monet/papers.html as of Feb. 5, 1999
	C11	van den Berg et al., "Analysis of a Dynamic Query Optimization Technique for Multi-Join Queries," as appears on www.cwi.nl/~monet/papers.html as of Feb. 5, 1999
	C12	Angara website, www.angara.com, copyright 1998, Angara Database Systems, Inc.
	C13	Cache website, www.intersys.com, copyright 1996, 1997, 1998, InterSystems Corporation
	C14	"The Dali Main-Memory Storage Manager," Dali website, www.bell-labs.com/project/dali, copyright 1996, as appears on the website as of Feb. 5, 1999

MY

EXAMINER MAX. S

DATE CONSIDERED

2/13/08

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for Form 1449/PTO	ATTY DOCKET NO. 8676-042 (909537-999037)	APPLICATION NO. 10/629,810
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	APPLICANT: Tarin, Stephen A.	
,	FILING DATE: July 28, 2003	ART UNIT: CONF. NO.: 2168 7914

NON PATENT LITERATURE DOCUMENTS (include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, etc.,), date, page(s)s, volume, publisher, city and/or country where published, etc.) **EXAMINER'S** INITIALS* Jagadish et al., "Dali: A High Performance Main Memory Storage Manager," www.bell-labs.com/project/dali, appears C15 in Proceedings of the 20th VLDB Conference Santiago, Chile, 1994 Bohannon et al., "Recoverable User-Level Mutual Exclusion," as appears on www.bell-labs.com/project/dali as of C16 Bohannon et al., "Logical and Physical Versioning in Main Memory Databases," www.bell-labs.com/project/dali, C17 appears in Proceedings of the Conference on Very Large Database, 1997 "Times Ten Performance Software," Times Ten website, www.timesten.com, copyright 1997, 1998 C18 "Titanum Database Engine Technical Synopsis" copyright 1998, Micro Data Base Systems, Inc. C19 Herrin et al., "Schema and Tuple Trees: An Intuitive Structure for Representing Relational Data," www.hsdi.com/qddb/article2, appears in Computing Systems, vol. 9, no. 2, copyright 1996 by the USENIX C20 Association Herrin et al., "An ASCII Database for Fast Queries of Relatively Stable Data," www.hsdi.com/qddb/article2, appears C21 in Computing Systems, vol. 4, no. 2, copyright 1991 by the Regents of the University of California Date, C. J., "An Introduction to Database Systems," 3rd Ed., pp.33-61, Addison-Wesley Publishing Company C22 Date, C.J., August, 1995, "An Introduction to Database Systems," 6th Ed., pp. 1-51, 710-760, Addison-Wesley C23 Publishing Company Batory, D.S., "On Searching Transposed Files," ACM TRANSACTIONS ON DATABASE SYSTEMS, vol. 4, no. 4, C24 December 1979, pp. 531-544 Batory et al., "A Unifying Model of Physical Databases," ACM TRANSACTIONS ON DATABASE SYSTEMS, vol. C25 7, no. 4, December 1982, pp. 509-539 Eggers et al., "Efficient Access of Compressed Data," IEEE, 1980, pp. 205-211 C26 Eggers et al., "A Compression Technique for Large Statistical Databases," IEEE, 1981, pp. 424-434 C27 Valduriez, P., "Join Indices," ACM TRANSACTIONS ON DATABASE SYSTEMS, vol. 12, no. 2, June 1987, pp. C28 218-246 Olken et al., "Rearranging Data to Maximize the Efficiency of Compression," ACM, 1986, pp. 78-90 C29

MHZ

EXAMINER

my H. F.

DATE CONSIDERED 2/13/08